Reference List

HOTELS

GEOCLIMA
Smart HVAC Solutions

UNITS

Place	Model	Cooling Capacity	Description	N.
Hotel - UK	TSE 170 / 34	kW 170	Condenserless water chiller	2
Hotel - UK	TMA 1050 / 34	kW 1050	Air cooled chiller unit	3
Hotel - UK	TMA 600 / 34	kW 600	Air cooled chiller unit	1
Dorchester Hotel - UK	TMA 1050/34	kW 1050	Air cooled chiller unit	1
Hilton Hotel Stansted - UK	TMH 600/34	kW 600	Water cooled chiller unit	1
Grange Tower Hotel - UK	TMH 1A250 WT	kW 250	Water cooled chiller unit	1
	TMH 2A500 WT	kW 50		2
Premier Inn, Euston - UK	TSE 400/34	kW 400	Condenserless water chiller	1
Premier Inn Islington - UK	TMA 1A260A EC	kW 260	Air cooled chiller unit	1
United Hotels Lordos - Cyprus	TMA 2A550A ES EC	kW 550	Air cooled chiller unit with Evaporative System	1
Manchester Square Fire - UK	TSE 1A250DC	kW 234	Condenserless water chiller	2
Hotel Le St Geran - Mauritius	TMA 3A960A EC	kW 1000	Air cooled chiller unit	2
Le Touessrok Hotel, Mauritius	TMA 2B700B EC	kW 630	Air cooled chiller unit	1
Hotel Harbor Riga - Latvia	GHH-T 350/34	kW 350	Water cooled chiller unit	1
Mitel hotels Bristol - UK	GHA-B 4110/66/HR	kW 1100	Air cooled chiller unit	3
Hotel “Principe Leopoldo” - CH	GHH S 245 P	kW 228	Water cooled chiller unit	1
Hotel Palace Europacenter - Germany	GHA F160A EC-ZE LN	kW 93	Air cooled chiller unit	1

Place	Model	Cooling Capacity	Description	N.
Hilton Hotel - UK	VHA – C 424 / 66	kW 200	Air cooled chiller unit	1
	VHA-C 238/66/TP	kW 155		1
Hotel Revita - Germany	VHA-C 111/66/TP	kW 20	Air cooled chiller unit	2
T5 Hilton - UK	VHA-C 830/66/EN	kW 500	Air cooled chiller unit	3
Doubletree by Hilton West End - UK	VHA 1480A LN EC-01 PU	kW 100	Air cooled chiller unit	1

CASE STUDIES

DOUBLETREE HOTEL

Background

A luxury high end hotel situated in Southampton Row, London, has had a multimillion pound refit including the addition of several penthouse suites in the attic and executive rooms in the basement. For the air conditioning system that serves these rooms it was necessary to install a new chiller.

Challenges

The project had to face several logistical challenges related to the location of the building: first of all, the hotel is surrounded by busy roads and therefore it was impossible to use a crane to position the unit. Furthermore, the chiller could only be installed on the roof of the building adjacent to the penthouse suites and this meant that the machine had to be ultra low noise when operating.

Project

Our designers, together with our distributor Cooltherm, developed a bespoke solution with a completely demountable air-cooled chiller and whose components, including the hydraulic unit, could be manually transported to the roof. Furthermore, a combination of technological solutions was adopted to guarantee the adequate levels of silence.

Results

Once installed, the chiller was commissioned into operation and the sound levels were tested: the noise produced fell below the maximum required level of 51 dB (A) at 10 meters, and this without compromising the performance, the efficiency and reliability of the chiller even in extreme weather conditions.

LORDOS BEACH HOTEL

Background

The Lordos Beach Hotel, placed on the seaside, is one of the most luxurious and famous hotel in Cyprus.

Purposes

The target set by the client was to satisfy three specific requirements at the same time. Firstly, since it is a civilian installation, high levels of silence were needed; then, the highest efficiency possible was required; finally, there was the need to develop a compact sized application, in order to be put on the roof of the hotel – already partially covered with solar panels.

Project

The solution suggested by Geoclima was about the design of a TMA chiller with adiabatic system. The evaporative system exploits the natural process through which the hot and dry air sucked from the environment, passing through evaporative suitably wet packs, cools down. In this way, it was possible to develop a compact sized chiller and, at the same time, ensure high silence and efficiency levels. Moreover, Geoclima was able to offer further solution for energy and costs saving: Geoclima designed a method so that the water used to wet the packs doesn't go to waste – as happen usually – but is put back into circulation, in order to be reused by the chiller.

Results

The chiller designed by Geoclima turned out to be suitable for the satisfaction of all client's requirements. The challenge was about combine in a single machine compact dimensions and high silence and efficiency levels – generally achieved through a larger installation.

ABOUT US

We design and produce special units for applications in air conditioning, refrigeration and air handling systems, with low environmental impact and specifically designed to meet all specific clients' requirements in terms of size, capacity, performance and temperature. **Where the others stop, we go on.**

Our identity is founded on:

INNOVATION
We use the highest technology available in order to maximize efficiency, reduce start-up costs and guarantee a satisfactory return on investment.

CUSTOMIZATION
All types of machines can be provided and developed in non-standard version, thanks to the flexibility of our production system.

ECO-SUSTAINABILITY
We aim to develop applications with the lowest environmental impact possible, using

Our facilities and sales offices around the world.

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